

# UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.

249768031US1

First Inventor or Application Identifier

Amit D. Agarwal

Title

**PROVIDING GIFT CLUSTERING FUNCTIONALITY TO  
ASSIST A USER IN ORDERING MULTIPLE ITEMS FOR  
A RECIPIENT**

Express Mail Label No.

EL696997051US

(Only for nonprovisional applications under 37 CFR § 1.53(b))

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Box Patent Application  
Commissioner for Patents  
Washington, D.C. 20231

1. ☐ Authorization for Extensions & Fee Transmittal  
(Submit an original and a duplicate for fee processing)

2. ☒ Specification [Total Pages] **44**  
(preferred arrangement set forth below)

- Descriptive Title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

☐ Applicant claims small entity status.  
See 37 CFR 1.27

☒ Drawing(s) (35 USC 113) [Total Sheets] **15**

Oath or Declaration [Total Pages] **1**

- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 CFR 1.63(d)(2) and 1.33(b)

6. ☐ Application Data Sheet. (See 37 CFR 1.76)

7. ☐ CD-Rom or CD-R in duplicate, large table or  
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)

- a. ☐ Computer-Readable Copy
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Other: \_\_\_\_\_

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment

☐ Continuation ☐ Divisional ☐ Continuation-In-Part (CIP) of prior Application No.: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group / Art Unit \_\_\_\_\_

For **CONTINUATION** or **DIVISIONAL** apps only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

☒ Claims the benefit of Provisional Application No. **60/217,333 filed July 11, 2000**

## 18. CORRESPONDENCE ADDRESS

Customer Number 25096 / Barcode



25096

PATENT TRADEMARK OFFICE

Respectfully submitted,

TYPED or PRINTED NAME James A. D. White

SIGNATURE

REGISTRATION NO. 43,985

Date

10/27/00

# PROVIDING GIFT CLUSTERING FUNCTIONALITY TO ASSIST A USER IN ORDERING MULTIPLE ITEMS FOR A RECIPIENT

## CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of provisional U.S. Patent Application  
5 No. 60/217,333 (Attorney Docket No. 249768031US), filed July 11, 2000, which is  
hereby incorporated by reference.

## TECHNICAL FIELD

10 The present invention relates to a computer method and system for placing  
orders, and more particularly to a method and system for ordering user-defined groups of  
multiple items.

## BACKGROUND

15 The Internet comprises a vast number of computers and computer networks  
that are interconnected through communication links. The interconnected computers  
exchange information using various services, such as electronic mail, Gopher, and the  
World Wide Web ("WWW"). The WWW service allows a server computer system (*i.e.*,  
Web server or Web site) to send graphical Web pages of information to a remote client  
computer system. The remote client computer system can then display the Web pages.  
Each resource (*e.g.*, computer or Web page) of the WWW is uniquely identifiable by a  
Uniform Resource Locator ("URL"). To view a specific Web page, a client computer  
20 system specifies the URL for that Web page in a request (*e.g.*, a HyperText Transfer  
Protocol ("HTTP") request). The request is forwarded to the Web server that supports  
that Web page. When that Web server receives the request, it sends that Web page to the  
client computer system. When the client computer system receives that Web page, it  
typically displays the Web page using a browser (*i.e.*, a special-purpose application  
25 program that effects the requesting of Web pages and the displaying of Web pages).

Currently, Web pages are typically defined using HyperText Markup Language ("HTML"). HTML provides a standard set of tags that define how a Web page is to be displayed. When a user indicates to the browser to display a Web page, the browser sends a request to the server computer system to transfer to the client computer system an HTML document that defines the Web page. When the requested HTML document is received by the client computer system, the browser displays the Web page as defined by the HTML document. The HTML document contains various tags that control the displaying of text, graphics, controls, and other features. The HTML document may contain URLs of other Web pages available on that server computer system or other server computer systems.

The World Wide Web is especially conducive to conducting electronic commerce. Many Web servers have been developed through which vendors can advertise and provide items. The item can be products that are delivered electronically to the purchaser over the Internet (*e.g.*, music) and products that are delivered through conventional distribution channels (*e.g.*, books delivered by a common carrier). Similarly, the items can be services that are provided either electronically (*e.g.*, providing email service) or physically (*e.g.*, performing cleaning services at the purchaser's house). While an orderer or purchaser of an item typically obtains full ownership of the item, other types of purchase transactions include renting, leasing, trying an evaluation copy of an item for free for a limited time, licensing, bartering, and exchanging.

A server computer system that is providing a item ordering or purchasing service may provide information about the available items using an electronic version of a catalog. A user (or "customer") may then use a browser to view and select various items in the catalog that are to be purchased. When the user has completed selecting the items to be purchased, the server computer system then prompts the user for information to complete the ordering of the items. This purchaser-specific order information may include the purchaser's name, the purchaser's credit card number, and a shipping address for the order. The server computer system then typically confirms the order by sending a confirming Web page to the client computer system and schedules shipment of the items.

The selection of the various items from the electronic catalogs is generally based on the “shopping cart” ordering/purchasing model. When the purchaser selects an item from the electronic catalog, the server computer system metaphorically adds that item to a shopping cart. When the purchaser is done selecting items, then all the items in the shopping cart can be “checked out” (*i.e.*, ordered) when the purchaser provides billing and shipment information. In some models, when a purchaser selects any one item, then that item is “checked out” by automatically prompting the user for the billing and shipment information. Although the shopping cart model is very flexible and intuitive, it has a downside in that it requires many interactions by the purchaser. Thus, if a purchaser is ordering only one item, the overhead of confirming the various steps of the ordering process and waiting for, viewing, and updating the purchaser-specific order information can be significant. Also, sensitive information is transmitted over the Internet each time an order is placed using the shopping cart model, and thus is susceptible to being intercepted and decrypted.

Some Web sites also provide Web-based gift registry functionality (*e.g.*, [www.wishclick.com](http://www.wishclick.com) and [www.netgift.com](http://www.netgift.com)) in which a user can manually specify indications of items which they are interested in receiving, such as a “wish list” of desired items. Other users that desire to give a gift to that user can view the user’s wish list, and then order or purchase an item from the list for the user. When using such wish lists, the gift recipient is more likely to receive appropriate gifts that they desire, and a gift giver is more likely to be able to provide such gifts to the recipient. Moreover, some Web sites may additionally track the items that gift givers purchase for the recipient, and automatically remove those items from the wish list when they are purchased.

Unfortunately, item ordering or purchasing services can be difficult to operate in certain circumstances. For example, if a user of such a service desires to send multiple items to a recipient, the user can manually specify the multiple items one-by-one (*e.g.*, by placing all of the items in a shopping cart) and then order those items. However, item purchasing services will not typically treat the multiple items as a group – for example, some of the items may be shipped at different times if they have different availability or shipping needs. Even if an item purchasing service allows the user to

indicate to ship all of the items together, the multiple items will not typically be treated as a group for other purposes such as pricing and availability (*i.e.*, pricing and availability information will be presented separately for each individual item rather than for the group). In addition, if the user later desires to order the same multiple items (*e.g.*, for a different recipient), the user will have to manually re-specify all of the items. This process can be time-consuming and frustrating.

Other problems with current item ordering or purchasing services relate to situations in which a user desires to order items for a recipient, but has difficulty in identifying appropriate items to order. For example, the user may be attempting to order items for a particular occasion (*e.g.*, the birthday of the user's mother, or Easter), but have difficulty identifying items that would be of interest for the recipient on the occasion. Alternately, the user may know specific interests of the recipient (*e.g.*, wine tasting, rock climbing, 18<sup>th</sup> century French literature, etc.), but have difficulty identifying items that would be of interest to people with such interests. In other situations, the user may know only limited information about a potential recipient (*e.g.*, only a username or an actual name) that does not include any information about the interests of the recipient.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figures 1A-1D illustrate an embodiment of creating user-defined gift clusters of multiple items to be later used for ordering.

Figures 2A-2B illustrate an embodiment of ordering user-defined gift clusters of multiple items.

Figure 3A illustrates an embodiment of searching for user-defined gift clusters of multiple items that satisfy specified search criteria.

Figure 3B illustrates an embodiment of categorizing customers in a manner that can be used to identify user-defined gift clusters of multiple items that are appropriate for the customers.

Figure 4 is a block diagram illustrating an embodiment of a system for creating and ordering user-defined gift clusters of multiple items.

Figure 5 is a flow diagram of an embodiment of the Create Gift Cluster routine.

Figure 6 is a flow diagram of an embodiment of the Categorize Gift Cluster routine.

Figure 7 is a flow diagram of an embodiment of the Search Gift Clusters routine.

Figure 8 is a flow diagram of an embodiment of the View Gift Cluster routine.

Figure 9 is a flow diagram of an embodiment of the Order Gift Cluster routine.

Figure 10 is a flow diagram of an embodiment of the Determine Delivery Information For The Gift Cluster subroutine.

Figure 11 is a flow diagram of an embodiment of the Determine Payment Information For The Gift Cluster subroutine.

## DETAILED DESCRIPTION

A software facility is described below for the creation (or “definition”) of gift clusters of multiple items in a client/server environment, and for the ordering of such user-defined gift clusters of multiple items. In particular, a Gift Clustering system software facility allows a user to specify multiple items to be associated together as a gift cluster, and then to order the gift cluster as if it were a single item. In some embodiments the Gift Clustering system is provided by and works in conjunction with a particular item ordering service, while in other embodiments the system works independently from any particular item ordering service.

When creating or defining a gift cluster, the items added to the gift cluster can differ in various ways, such as having both items representing goods and items representing services, or having items of various product types (*e.g.*, a book, a CD, a food product, etc.). In some embodiments, a gift cluster can even have an item that represents another gift cluster. Specific mechanisms for creating gift clusters are discussed in greater detail below.

After a user has created a gift cluster, the user can then order the gift cluster as if it were a single item (*e.g.*, information about the ordering such as an availability or delivery date will be displayed for the gift cluster as a whole rather than for the individual items), and all of the multiple items associated with the gift cluster will be delivered as a group to the recipient of the order (*e.g.*, the items will be shipped so as to arrive together). The user may order the gift cluster as a gift for themselves or for another recipient, and may also order the gift cluster for the same or different recipients multiple times.

When creating a gift cluster, a user can also specify a variety of descriptive information about the gift cluster. For example, the user may specify shipping instructions (*e.g.*, next-day shipping) or wrapping instructions (*e.g.*, a particular type of wrapping paper) that are appropriate for the items of the gift cluster. In addition, in some embodiments the user could specify a particular recipient or delivery address if the items are sufficiently specific to an intended recipient. Similarly, the user can in some embodiments specify information related to the user (*e.g.*, if only the user will order the gift cluster), such as payment information associated with the user. When a gift cluster is ordered, such associated descriptive information will be used as part of the ordering unless overridden.

The user can also specify other descriptive information about a created gift cluster, such as whether the gift cluster is available only to the user for ordering or instead is also available to other customers. In some embodiments the user may indicate specific other customers to whom the created gift cluster will be available, while in other embodiments the created gift cluster will be available to any customer. In addition, in order to encourage users to create useful gift clusters and to make them available to others, the creators of gift clusters may in some embodiments be compensated for supplying gift clusters that are available to other users or for use of their supplied gift clusters by other customers. Other types of descriptive information that the user may specify about a gift cluster include an expiration date (*e.g.*, after Christmas) or other criteria (*e.g.*, a number of times of the gift cluster being ordered, such as 1) that when satisfied indicate that the gift cluster should be removed. When the expiration criteria are satisfied, the Gift Clustering system can remove (or make inaccessible) the gift cluster.

The user in some embodiments can also specify various descriptive information that categorizes the gift cluster so as to assist the user or others in identifying when the gift cluster is appropriate for a recipient. For example, the user may associate a mnemonic moniker with the gift cluster that will be used for display. In addition, the user may specify other categorization information for the gift cluster that indicates recipients or situations for which the gift cluster is appropriate. Such categorization could include identifying occasions for which the gift cluster is appropriate and/or identifying types of recipients for whom the gift cluster is appropriate. Types of recipients could be identified in a variety of ways, such as by interests of the recipients or by demographic information about the recipients.

The various categorization or other descriptive information can assist customers that are searching for appropriate gift clusters. In some embodiments, customers can specify an occasion and/or can identify various information about the intended recipient, and will then receive indications of various gift clusters that satisfy the specified criteria. In other embodiments, customers can use other criteria to search for gift clusters, such as popularity of the gift cluster (*e.g.*, as defined by the number of orders that have been received for the gift cluster) or price, either alone or in combination with other criteria. If criteria such as popularity is to be used, the system can also track the use of the various created gift clusters in order to be able to determine such information.

In addition to the user-specified categorization discussed above, the system can in some embodiments automatically categorize user-defined gift clusters. This automatic categorization can occur in a variety of ways. For example, in some embodiments some or all individual items may have categorization information associated with them (*e.g.*, a toy with a suggested age range or a gender-specific health product), and if so the categorization information for the items in a gift cluster could be combined to create an aggregate categorization for the gift cluster. Alternately, in other embodiments the system could track information over time about the recipients of a gift cluster (*e.g.*, from information specified during searches or from user profiles for recipients), and



could aggregate the information about the various past recipients in order to determine a categorization for the gift cluster to assist in identifying future recipients.

Similarly, the system can in some embodiments automatically search for appropriate user-defined gift clusters. For example, even if a customer does not know demographic information or interests of a possible recipient, the system may be able to access such information (*e.g.*, from a user profile for the recipient, from past ordering patterns of the recipient, or from publicly accessible databases). If so, the system could receive an indication of a recipient, access relevant identifying or categorization information about the recipient, and automatically search for gift clusters that match the accessed information.

In other embodiments, the system may even be able to automatically create gift clusters. For example, the system could monitor groups of items that are ordered together by various customers. If enough customers order a group of items together, the system could automatically create a gift cluster containing those items.

Thus, gift clusters of multiple items can be created in a variety of ways, and can have a variety of types of associated information. In addition, the ability to create and order gift clusters provides a variety of benefits over current item ordering services.

Gift clusters can also be identified and ordered by customers in a variety of ways. In particular, gift clusters can be added to shopping carts and to wish lists in the same manner as any other item. In addition, in some embodiments a single-action ordering system is provided in which purchaser-specific order information is stored for a user and then used to complete an order for an item. Similarly, in some embodiments multi-procurement option ordering is provided in which multiple pre-defined alternatives with differing purchaser-specific order information are available for completing the ordering of the item. If single-action or multiple procurement option ordering systems are available, customers can use such systems to order gift clusters for themselves or for others in the same manner as for other items. Those skilled in the art will appreciate that other mechanisms for ordering or purchasing items can similarly be used to order or purchase gift clusters.

004201-1036950

In one embodiment, the single-action ordering system involves the server system storing purchaser-specific order information for various potential purchasers. When a purchaser requests information describing an item, the server system can send the requested information (*e.g.*, via a Web page) to the client computer system along with an indication of a single action to perform to place the order for the item. When single-action ordering is enabled, the purchaser need only perform a single action (*e.g.*, click a mouse button) to order the item, and the server system then completes the order by adding the purchaser-specific order information for the purchaser to the item order information (*e.g.*, product identifier and quantity).

In other embodiments, a mechanism for giving an item (including a gift cluster) as a gift to an identified recipient(s) using a single action is provided. When information is displayed describing the item, the system displays an instruction to identify the recipient(s) and then select a “give” button to order the item for the recipient(s). If the user is giving the gift to only one recipient, then the user enters identifying information, such as the email address, of the recipient. If the user is giving the gift to more than one recipient, the user could enter the identifying information of each recipient, or alternatively, the user could enter a group name that is associated with the identifying information for each member (*i.e.*, recipient) of the group. The system then uses the identifying information to identify a delivery address for the gift, such as by searching accessible databases. Single-action ordering is discussed in greater detail in U.S. Patent Application No. 09/151,617, filed September 11, 1998, which is hereby incorporated by reference in its entirety and which is a continuation-in-part of U.S. Patent No. 09/046,503, filed on March 23, 1998, now abandoned, and of U.S. Patent Application No. 08/928,951, filed on September 12, 1997, Patent No. 5,960,411.

In yet other embodiments, the multi-procurement option ordering system involves each user having multiple defined procurement options such that a selection or indication of one of those procurement options can be sufficient to complete the ordering of the item without further action by the user. Each procurement option can have a unique set of purchaser-specific order information (*e.g.*, payment information, delivery address, delivery instructions, shipping instructions, wrapping instructions, etc.), can have

a unique moniker (*e.g.*, a short name such as “home,” partial payment information, partial delivery address information, recipient name, etc.), and can have a variety of types of recipients (*e.g.*, the user, an individual other than the user, a group of recipients, etc.) to whom an ordered item will be delivered. In some embodiments, each user can have one of their procurement options designated as their primary or default procurement option. Multi-procurement option ordering is discussed in greater detail in U.S. Patent Application No. 09/547,540, filed April 12, 2000, which is hereby incorporated by reference in its entirety and which claims the benefit of provisional U.S. Patent Application No. 60/171,947, filed December 23, 1999 and of U.S. Patent Application No. 60/190,264, filed March 17, 2000.

Figures 1A-1D illustrate various example embodiments of creating user-defined gift clusters of multiple items that can be later used for ordering. In particular, Figure 1A illustrates the display of an example Web page describing an available item, including a mechanism for adding the item to one or more gift clusters. This example Web page may be sent from a server system to a client system when a user of the client system requests to review detailed information about the item.

The example Web page contains a summary description section 101, a shopping cart section 103, an ordering section 105, a wish list addition section 107, and a detailed description section 109. These various sections 101-109 allow a user to take a variety of actions with respect to the described item. In particular, the summary and detailed description sections provide information that identifies and describes the item. The shopping cart section allows the user to add the described item to one or more shopping carts. In particular, the shopping cart section includes a shopping cart option display 103a that indicates a currently selected shopping cart as well as a drop-down shopping cart selection button to select other shopping carts. The shopping cart section also contains a button 103e to use to add the described item to the currently selected shopping cart. In a similar manner, the wish list addition section allows the user to add the described item to one or more wish lists by using a wish list option display 107a that allows a current wish list to be selected and a button 107e that adds the described item to the currently selected wish list. The ordering section can be used for single-action

ordering and multi-procurement option ordering of the described item. In particular, the user can select a current procurement option using the procurement option display 105a (if multiple procurement options are available for the user), and can order the described item using the information of the current procurement option with a single-action by selecting the button 105e (*e.g.*, with a single click of the mouse button over the displayed indication of the button). The procurement option display may initially show a default procurement option, or may instead show only a single procurement option if only one is available. The ordering section also contains a gift indication selection option 105g that, if selected when the button 105e is selected, causes the system to gather additional information from the user such as whether a gift message will accompany (or precede) the item and whether to gift-wrap the item.

In addition to the sections 101-109, the example Web page also contains a gift cluster creation section 110 with which the user can add the described item to one or more gift clusters. In particular, the gift cluster creation section contains a gift cluster display 112, which includes a current gift cluster 114 and a gift cluster option selection button 116. The gift cluster creation section also contains an item addition button 118 that when selected will add the described item to the current gift cluster. In the illustrated embodiment, if there is more than one available gift cluster, a default gift cluster is initially selected as the current gift cluster when the Web page is first displayed. In other embodiments the system may allow only a single gift cluster to be created at a time. As is shown, a gift cluster with the moniker "Mom's Birthday Present" is the current gift cluster. When the item addition button is selected (*e.g.*, by clicking the mouse when the cursor is over section 118), the client system sends a message to the server system requesting that the described item be added to the current gift cluster.

After the server system receives a message from the client system to add the item to the current gift cluster, the server system can then associate information about the item (*e.g.*, a unique item ID) with the current gift cluster. In addition, in some embodiments the user may be able to specify quantity information for the item being added, either as part of the item description Web page or via an additional Web page (not shown) sent to the client system in response to the message. The server system may also

send a new Web page (not shown) to the client system that confirms that the item has been added. The information about the gift clusters and their associated items can also be stored in a variety of ways. In some embodiments, the gift cluster information is stored by the server system and available to the client system only when the server system provides it to the client system, while in other embodiments the client system stores the gift cluster information and provides it to the server system.

Those skilled in the art will appreciate that the example Web page can be modified in a variety of ways. For example, Web pages on the server system may contain only the sections 101-109, and the gift cluster creation section may be selectively included or excluded before sending the Web page to the client system. Alternately, in some embodiments only a single shopping cart, wish list, procurement option, and gift cluster may be available or displayed on the Web page. Those skilled in the art will also appreciate that these various sections can be omitted or rearranged or adapted in various ways. The user need only be aware of the item to be added to a gift cluster and of an action (*e.g.*, a single action) needed to add the item to the gift cluster.

Figure 1B illustrates the display of multiple gift cluster options available for selection by the current user. In the illustrated embodiment, a dropdown list of the available gift clusters is displayed after the receipt of a user indication (*e.g.*, a left-click of the mouse while the cursor is over button 116). In addition to previously created gift clusters 120, 122, 124, and 126 that are displayed in the list, an option 130 to create a new gift cluster is also displayed. As is shown, some of the information on the Web page may be obscured by the dropdown list, such as the button 118. In alternate embodiments, available gift clusters may be displayed in a manner other than with a dropdown list. For example, the available gift clusters may instead be added to the Web page when it is initially generated, and thus be displayed without user indication. Alternately, available gift clusters can be displayed by cycling through and displaying a single entry at a time from a list of available gift clusters.

The gift clusters to be displayed can be determined in a variety of ways. In some embodiments, any gift cluster that the user has previously created may be displayed, while in other embodiments only certain gift clusters (*e.g.*, those whose creation has not

been completed) may be displayed. Alternately, some gift clusters (*e.g.*, completed gift clusters) can be displayed in a manner that indicates that they are not available for selection (*e.g.*, displayed in a dimmed manner or with an identifying mark).

The appearance of the displayed gift clusters can also vary in different ways. For example, the order and format in which the gift clusters are displayed can vary. In the illustrated embodiment, the list of gift clusters begins with the currently selected gift cluster (shown in highlighted form). In addition to order and format, the appearance of each individual gift cluster can also vary. For example, rather than displaying a moniker to represent a gift cluster, it is also possible to represent a gift cluster in other manners (*e.g.*, when no moniker is defined) such as by displaying descriptive information about the gift cluster or information about some or all of the items in the gift cluster.

In the illustrated embodiment, the selection of an indicated displayed gift cluster causes that gift cluster to become the current gift cluster, but does not cause the item to be added to that gift cluster. Thus, for example, if gift cluster 122 with the moniker “Dog Owners” is selected, then that gift cluster will become the current gift cluster and the “Dog Owners” moniker will replace the moniker “Mom’s Birthday Present” in the gift cluster display 112. If the user decides to then add the described item to the current gift cluster by selecting the button 118, the item will be added to the gift cluster 122.

If the user instead selects the “add new gift cluster” option 130, a new gift cluster will be created and selected as the current gift cluster. To begin the creation of the new gift cluster, the user may be presented with an additional Web page as illustrated in Figure 1D for gathering information about the new gift cluster, such as a moniker, shipping instructions, whether to make the gift cluster available to others, and descriptive information such as categorization information. In such an embodiment, the new gift cluster would be available for having items added to it after the gift cluster information is specified. Alternately, some or all of this information may be gathered later, such as after the creation of the new gift cluster is complete, and thus the new gift cluster may be available for having items added to it immediately after option 130 is selected.

002201" 44255950  
In other embodiments, gift clusters can be created in other ways. For example, Figure 1C illustrates an Item Categorization Information table 140 that contains various information about a wide variety of items. Each item has an entry 140a-140ae in the table, with the entry containing various information about the item in some or all of the fields. For example, entry 140a represents an item with an Item Name of "Book ABC" and a unique Item ID of "0001342." The book is categorized as a "Product" with a Product Type of "Book," and has no value for the Service Type field since it is not categorized as a service. The item is categorized as being appropriate for any occasion (indicated in the illustrative example with a "\*" in the Occasion field), and similarly is appropriate for recipients of any Gender, Age Range, and Interests. Those skilled in the art will appreciate that a variety of other types of information about the items (*e.g.*, price and availability) and about appropriate recipients for the items (*e.g.*, religion and race) could also be displayed.

In addition to item "Book ABC," a variety of other available items are similarly displayed, including various food products (both packaged and prepared), flowers, music CDs, DVD and VHS movies, TVs, software, toys, video games, health products, medicine, beauty products, art and other collectibles, housewares and kitchenware, furniture and other home furnishings, tools and various lawn products, automobiles for purchase or rental, cleaning services, computers and associated services, gift certificates, and previously created gift clusters. Those skilled in the art will appreciate that a variety of other types of items could be displayed.

In addition to the fields containing item information, each item also has a selection box at the left end of its entry which may be selected by the user as part of a gift cluster being created. In particular, the selected items will be added to the Current Gift Cluster 151 displayed below the table, and in the illustrated embodiment the user can change the currently selected gift cluster by selecting the Change Gift Cluster button 153. After the current gift cluster and each of the items of interest are selected, the user can add the selected items to the gift cluster by selecting the Add Selected Items To Gift Cluster button 155. Those skilled in the art will appreciate that items can be displayed and selected for gift clusters in a variety of other ways.

Figure 1D illustrates one method of supplying a variety of descriptive information about a gift cluster being created, regardless of whether it is created by selecting option 130 in Figure 1B or in some other manner. In the illustrated embodiment, the user is required to select a name moniker 162 for the gift cluster, and can optionally select a variety of types of other information. The other information includes a Description 164, an indication of whether the gift cluster is to be Available To Others 166, Expiration criteria 168, and one or more Recipients 170, Categories 172, Occasions 174, Education Levels 176, Genders 178, Income Levels 180, Ages (or age ranges) 182, geographic Locations 184, Interests 186, Races 188, Ethnicities 190, Religions 191, Occupations 192, Sexual Orientations 193, Gift Wraps 195, Shipping Instructions 196, and Accompanying Cards 197. For some types of information the user may select from a dropdown list (*e.g.*, Available To Others), while for other types of information the user may enter freeform text (*e.g.*, Description). After all of the information of interest has been specified, the user can associate the specified information with the gift cluster being created by selecting the Create New Gift Cluster As Indicated button 160. Those skilled in the art will appreciate that any type of information describing an item or how an item can be appropriately used (including appropriate occasions and recipients for the item) could similarly be specified for the gift cluster, and that in some embodiments a Name moniker may not be required.

After one or more gift clusters have been created, such gift clusters can be used for purchasing multiple items for a recipient as a group. Figures 2A-3B illustrate various embodiments of identifying and purchasing appropriate user-defined gift clusters of multiple items. In particular, Figure 2A illustrates one method in which a user can view gift clusters which they have previously created and can order one or more of those gift clusters for a recipient. The previously created gift clusters are displayed (*e.g.*, in response to a user request) in a My Gift Clusters table 220 that contains various information about the gift cluster. Each gift cluster has an entry in the table that contains information about the gift cluster, and also has a sub-entry in the table for each item in the gift cluster.



Thus, for example, the gift cluster with the moniker “Mom’s Birthday Present” is represented by entry 220a in the table, and the three items selected in Figure 1C to be added to the gift cluster are represented by sub-entries 220b-220d. These sub-entries contain the item information illustrated in Figure 1C, whether copied from or  
5 linked to the Item Categorization Information table. This gift cluster is indicated to be Accessible To Others (*e.g.*, whether specifically indicated by the user or as a default for newly created gift clusters), to currently have no Expiration Date or other expiration criteria, and to have a price of \$150 for all of the items in the gift cluster. No description information is available for the gift cluster, but it does have a unique cluster ID. In  
10 addition, the gift cluster has a variety of categorization information associated with it. In the illustrated embodiment, the categorization information of the various items in the gift cluster is automatically combined to create a set of categorization information for the gift cluster that is consistent with the items. In some embodiments, the user may be able to manually modify some or all of the automatically generated descriptive information  
15 associated with the gift clusters, while in other embodiments all descriptive information about the gift clusters may instead be manually supplied. Gift cluster ABC, represented by entry 220e and sub-entries 220f-220g similarly has various associated information in the table.

In addition to the other fields, each gift cluster entry in the table also has a  
20 selection box at the left end of its entry which may be selected by the user. In addition, a Current Recipient 231 is displayed below the table, as well as a Change Recipient button 233. After a current recipient and one or more gift clusters of interest are selected, the user can order the selected gift clusters for the selected recipient by selecting the Buy Selected Gift Clusters For Recipient Now button 235. Those skilled in the art will  
25 appreciate that gift clusters can be displayed and selected for ordering for a recipient in a variety of other ways.

Rather than ordering gift clusters from a display of multiple gift clusters such as in table 220, a user may instead be able to order an available gift cluster from an Web page describing the gift cluster, an example of which is illustrated in Figure 2B.

This example Web page may be sent from a server system to a client system when a user of the client system requests to review detailed information about a gift cluster.

The example Web page contains a summary description section 201, a shopping cart section 203, an ordering section 205, a wish list addition section 207, and a detailed description section 209. These various sections 201-209 allow a user to take a variety of actions with respect to the described gift cluster. In particular, similarly to the item description Web page illustrated in Figure 1A, the summary and detailed description sections provide information that identifies and describes the gift cluster (*e.g.*, information about the various items in the gift cluster and/or various categorization information about the gift cluster). The shopping cart section allows the user to add the described gift cluster to one or more shopping carts by selecting a current shopping cart with the shopping cart option display 203a and adding the gift cluster to the current shopping cart with button 203e. In a similar manner, the wish list addition section allows the user to add the described gift cluster to one or more wish lists by using a wish list option display 207a that allows a current wish list to be selected and a button 207e that adds the described gift cluster to the currently selected wish list. The ordering section can also be used in a manner similar to that described with respect to Figure 1A for single-action ordering and multi-procurement option ordering of the described gift cluster for a specified recipient. In addition to the sections 201-209, the example Web page also contains a gift cluster creation section 210 with which the user can add the described gift cluster to one or more other gift clusters.

After the server system receives a message from the client system to perform one of the indicated actions for the described gift cluster (*e.g.*, order the gift cluster for a specified recipient), the server system can then perform the requested action. The server system may also send a new Web page (not shown) to the client system that confirms that the action has been taken.

Those skilled in the art will appreciate that this example Web page can be modified in a variety of ways. For example, in some embodiments only a single shopping cart, wish list, procurement option, and gift cluster may be available or displayed on the Web page. Those skilled in the art will also appreciate that the various displayed sections

can be omitted or rearranged or adapted in various ways. The user need only be aware of the gift cluster and of the recipient, and of an action (*e.g.*, a single action) needed to order the gift cluster for the recipient.

In addition to a user being able to display the various gift clusters that the user has previously created, the user may also be able to identify various gift clusters which match specified criteria, whether they were created by the user or by others. In particular, Figure 3A illustrates one embodiment in which a user can specify various criteria, and can search for and retrieve various gift clusters which match the specified criteria.

In the illustrated embodiment, the user can specify search criteria for one or more categorization information types 302-322, and can also specify logical connectors (*e.g.*, AND, OR, NOT, etc.) 352-368 which determine how multiple search criteria are combined when searching. The categorization information types include a gift cluster Name 302, user Creator 304, Category 306 (*e.g.*, any service, or a particular product such as a book), Occasion 308, Gender 310, Age 312, Interests 314, Maximum Price 316, and Expiration criteria 318, and for each of these categories the user can select an appropriate value. The categorization information types also include category type 320 which allows the user to select any of a number of gift cluster properties, and to specify a value for the property in field 322. For some types of information the user may select from a dropdown list, while for other types of information the user may enter freeform text. After all of the search criteria of interest has been specified, the user can search for gift clusters that match the search criteria by selecting the Search Now button 370. If the user had specified criteria indicating, for example, an Occasion of "Christmas," a Gender of "Male," and an Age of 17, both of the gift clusters illustrated in Figure 2A would match the specified criteria. However, unless the user performing the search was the same user that created the two gift clusters, only the gift cluster represented by entry 220a will be presented to the searching user since the other gift cluster is not Accessible To Others.

Those skilled in the art will appreciate that any type of information describing a gift cluster or how a gift cluster can be appropriately used (including appropriate occasions and recipients for the gift cluster) could be specified as search

criteria. In addition, gift clusters that are identified as matching the specified search criteria can be displayed to the user performing the search in a variety of ways, such as in a table similar to table 220 illustrated in Figure 2A or in multiple descriptive gift cluster Web pages such as is illustrated in Figure 2B.

5 In an alternate embodiment, a user may be able to identify various gift clusters which are appropriate for a particular recipient, even if the user does not have other relevant information about the user. For example, the system may maintain or have access to various information about the recipient which can be automatically identified and used as search criteria. In some embodiments the information will be displayed to  
10 the user, and the user can then use the customer information to perform a search. In other embodiments, such information about the user may not itself be displayed to the user, but the information can be automatically used to perform a search, and the results of the search will be displayed to the user.

15 Figure 3B illustrates an embodiment in which various information about multiple customers is stored and can be used as search criteria. In particular, Figure 3B illustrates a Customer Categorization Information table 390 that contains various information about customers. Each customer has an entry 390a-390d in the table, with the entry containing various information about the customer in some or all of the fields. For example, entry 390a represents customer John Doe who has a unique Customer ID of  
20 "2749328." Mr. Doe is Male and has an age of 37, but other information about Mr. Doe such as his Birthday, Interests, Occupation, Education Level, Income Level, Location, Race, Ethnicity, Religion and Sexual Orientation is not available. For other customers such as the person represented by entry 390c, the actual name of the user may not even be available, with only a username or screenname instead being used. Those skilled in the  
25 art will appreciate that a variety of other types of information about the customers could also be stored and displayed.

In addition to being able to use the information in the table as search criteria (whether automatically or manually), the table in the illustrated embodiment can also be displayed to the user and used for specifying recipients of a gift cluster being  
30 ordered. In particular, each customer entry in the table has a selection box at the left end

of its entry which may be selected by the user. A Current Gift Cluster 381 is also displayed below the table, as well as a Change Gift Cluster button 383. After a current gift cluster and one or more recipients of interest are selected, the user can order the current gift cluster for the selected recipients by selecting the Buy Gift Cluster For  
5 Selected Recipient Now button 385.

Those skilled in the art will appreciate that the embodiments shown in Figures 1A-3B are for illustrative purposes only, and are not intended to limit the scope of the invention. A user can perform a creation of a gift cluster of multiple items in a variety of ways, and can similarly perform an identification of an appropriate gift cluster  
10 or an ordering of a gift cluster in a variety of ways.

Figure 4 is a block diagram illustrating a server computer system 400 suitable for executing an embodiment of the Gift Clustering system, and client computer systems 450 from which users can access functionality related to gift clusters. The server computer system includes a CPU 405, various I/O devices 410, storage 420, and memory  
15 430. The I/O devices include a display 411, a network connection 412, a computer-readable media drive 413, and other I/O devices 415.

An embodiment of the Gift Clustering system 440 is executing in memory, and it includes a Gift Cluster Creator component 441, a Gift Cluster Categorizer component 443, a Gift Cluster Searcher component 445, a Gift Cluster Viewer component 447, and a Gift Cluster Purchaser component 449. In some embodiments, the  
20 Gift Clustering system will operate in conjunction with an optional item purchasing or ordering service 432 that can be executing on another computer system or on the server system 400.

Users can access the Gift Clustering system in a variety of ways. For  
25 example, some users may have physical access to the server computer system. Alternately, other users can use client computer systems to remotely access the system (e.g., via the Internet and/or the World Wide Web). Such users can use software or other functionality provided on the client computer systems, such as a browser 462 executing in memory 460, to interact with the Gift Clustering system. In addition, some or all of the  
30 Gift Clustering components may provide various feedback or other general types of

information to users (*e.g.*, in response to user requests), and this information can be presented to the user on the display 411 of the server system or on one of the I/O devices 465 on a client system.

As the Gift Clustering system executes, the Gift Cluster Creator component  
5 receives requests from users to create gift clusters of multiple items and in response creates the gift clusters. In particular, the Gift Cluster Creator component may receive an indication to create a new gift cluster, and optionally may obtain various categorization information to be associated with the new gift cluster and/or various other descriptive information about the gift cluster. After a new cluster is initially created, various items  
10 can be added to the gift cluster by indicating the items (and the gift cluster if more than one is being created) to the Gift Cluster Creator component. After the new gift cluster is created, the gift cluster and its associated information (including the items added to the gift cluster and the other descriptive information) are stored in the Gift Cluster database 421 on storage 420.

The Gift Cluster Categorizer component categorizes created gift clusters to  
15 assist in later identification of appropriate gift clusters, such as when searches are conducted. If the Gift Cluster Creator component received categorization information for a newly created gift cluster from the user, the Gift Cluster Creator component supplies the categorization information to the Gift Cluster Categorizer component. In some  
20 embodiments the Gift Cluster Categorizer component will categorize the created gift cluster using manually specified information, whether received from the Gift Cluster Creator component or directly from the user. To assist the user in manually categorizing the created gift cluster, the Gift Cluster Categorizer component can supply information to the user that identifies possible categorization types and/or possible values for  
25 categorization types, and in return receive categorization information.

In other embodiments, the Gift Cluster Categorizer component will automatically categorize the created gift cluster. As described previously, this can be done in a variety of ways, such as by aggregating item categorization information for the items in the gift cluster (*e.g.*, from the Item database 425 on storage 420) or by tracking  
30 recipients of the gift cluster and aggregating customer categorization information (*e.g.*,

from the Customer database 423 on storage 420) for the recipients. After the gift cluster is categorized, its associated categorization information is stored in the Gift Cluster database and is associated with the gift cluster.

The Gift Cluster Searcher component assists users in searching for appropriate gift clusters. For example, the Gift Cluster Searcher component can allow a user to specify various categorization criteria (*e.g.*, an occasion and/or various information about the intended recipient), and will then determine various gift clusters that satisfy the specified criteria (*e.g.*, by using information in the Gift Cluster database) and indicate them to the user.

The Gift Cluster Viewer component displays one or more indicated gift clusters to a user in a variety of ways. The component can retrieve a variety of information about the gift clusters from the gift cluster database, and send the retrieved information (*e.g.*, as part of a Web page) to the user for display.

The Gift Cluster Purchaser component allows a user to order one or more gift clusters as if they were a single item for one or more recipients. The user may order the gift cluster as a gift for themselves or for another recipient, and may also order the gift cluster for the same or different recipients multiple times. The user can indicate the gift clusters and recipients in a variety of ways.

Those skilled in the art will appreciate that computer systems 400 and 450 are merely illustrative and are not intended to limit the scope of the present invention. For example, the functionality provided by the illustrated components may in some embodiments be combined in fewer components or distributed in additional components, such as having separate components that determine pricing and/or availability information for a gift cluster rather than including this functionality in another component such as the Gift Cluster Purchaser. In addition, while items 440-449 and 432 are illustrated as being stored in memory while being used, those skilled in the art will appreciate that these items, or portions of them, can be transferred between memory and other storage devices for purposes of memory management and data integrity. Similarly, while items 421-425 are illustrated as being present on storage while being used, those skilled in the art will appreciate that these items, or portions of them, can instead be present in memory and

transferred between storage and memory. Alternately, in other embodiments some or all of the software components or systems may execute in memory on another device, and communicate with the Gift Clustering system via inter-computer communication. The Gift Clustering system may be stored as instructions on a computer-readable medium, such as a hard disk, a memory, or a portable article to be read by an appropriate drive. Similarly, the data structures of the Gift Clustering system may also be stored on a computer-readable medium. Moreover, the Gift Clustering system instructions and data structures can also be transmitted as generated data signals on a variety of computer-readable transmission mediums, including wireless-based and wired/cable-based mediums. In addition, the computer systems may contain additional components not shown (*e.g.*, various standard I/O devices) or may lack some illustrated components, and the computer system 400 may be connected to other devices, including through a network, through the Internet, or via the World Wide Web (WWW). Accordingly, the present invention may be practiced with other computer system configurations.

In some embodiments, a client system communicates with the server system in order to send HTTP requests and receive Web pages from the server. The client system can use a browser to send and receive HTTP messages and to display Web pages. One skilled in the art will appreciate that the techniques of the Gift Clustering system can be used in various environments other than the Internet. For example, the techniques can also be used in an electronic mail environment in which a gift cluster is described in an electronic mail message along with an indication of a recipient so as to ordering the gift cluster for the recipient. Also, various communication channels may be used, such as a local area network, a wide area network, or a point-to-point dialup connection. In addition, a server system may comprise any combination of hardware or software that can generate orders in response to selection of a gift cluster and a recipient. Similarly, a client system may comprise any combination of hardware or software that can interact with the server system. These systems may include television-based systems or various other consumer products through which orders may be placed. In addition, while Web pages are often constructed using HTML, other methods can be used to create such pages, such as Java, XML, HDML, WML, CGI scripts, etc. Similarly,



communication protocols other than HTTP can be used, such as WAP, TCP/IP, or FTP, as well as a variety of inter-device communication mechanisms, including CDPD, CDMA, GSM, PDC, PHS, TDMA, FLEX, ReFLEX, iDEN, TETRA, DECT, DataTAC, Mobitex, etc. Both the client and the server system can also operate on a wide variety of operating system types (*e.g.*, Windows, Linux, Unix, MacOS, BEOS, PalmOS, EPOC, Windows CE, FLEXOS, OS/9, JavaOS, etc.), and need not share the same operating system.

Figure 5 is a flow diagram of an embodiment of the Create Gift Cluster routine 500. The routine receives an indication of a gift cluster to be created, adds various items to the gift cluster, and optionally receives various descriptive information about the gift cluster and associates that information with the gift cluster. The routine begins in step 505 where an indication of the gift cluster to be created is received. The routine then continues to step 510 to determine if the indicated gift cluster is a new gift cluster or an existing gift cluster. If new, the routine continues to step 515 to create a new empty gift cluster, and if not the routine continues to step 520 to retrieve information about the existing gift cluster (*e.g.*, from the Gift Cluster database).

After steps 515 or 520, the routine continues to step 525 to determine if available items that can be added to the gift cluster are to be displayed, and if so continues to step 530 to display the available items. After step 530, or if available items are not to be displayed, the routine continues to step 535 to receive an indication of an item to be added to the gift cluster. In step 540, the routine then optionally receives an indication of a quantity of the item, which in some embodiments may default to a specified quantity such as 1 if another quantity is not indicated. The routine then continues to step 545 to add the indicated item in the indicated quantity to the gift cluster. After step 545, the routine continues to step 550 to determine if more items are to be added to the gift cluster, and if so returns to step 535.

If additional items are not to be added to the gift cluster, the routine continues to step 555 to determine if descriptive delivery-related information is to be specified for the gift cluster. If so, the routine continues to step 560 to optionally receive shipping instructions. In step 565, the routine then optionally receives a delivery address,

and in step 570 optionally receives gift wrap instructions. The routine next optionally receives accompanying card instructions in step 575, and in step 580 associates the various received information with the gift cluster. After step 580, or if it was determined in step 555 that information was not to be specified, the routine continues to step 582 to determine if descriptive categorization information about the gift cluster is to be specified. If so, the routine continues to step 585 to execute the Categorize Gift Cluster routine. After step 585, or if it was instead determined in step 582 that other information was not to be specified, the routine continues to step 587 to determine if more gift clusters are to be created. If so, the routine returns to step 505, and if not the routine continues to step 595 and ends.

Figure 6 is a flow diagram of an embodiment of the Categorize Gift Cluster routine 600. The routine receives various categorization information about an indicated gift cluster, and associates the information with the gift cluster. The routine begins in step 605 where an indication of a gift cluster is received. The routine next continues to step 610 to retrieve various information about the gift cluster, such as from the Gift Cluster database. In step 615, the routine next determines if the gift cluster is to be automatically or manually categorized. If automatic categorization is to occur, the routine continues to step 620 to retrieve categorization information about items in the gift cluster. The routine then continues to step 625 where it creates aggregate categorization information that is consistent with the retrieved categorization information. In step 630, the created aggregate categorization information is then associated with the gift cluster. Those skilled in the art will appreciate that other types of automatic generation of categorization information can occur.

If it was instead determined in step 615 that manual categorization was to occur, the routine instead continues to step 635 where it displays the information about the gift cluster that was retrieved in step 610. The routine next continues to step 640 where a receives an indication of a type of categorization information from the user, and in step 645 receives an indication of a value for the categorization type. In step 650 the routine then associates the categorization type and value with the gift cluster, and then continues to step 655 to determine if more manual categorization is to occur for the gift

cluster. If so, the routine returns to step 635, and if not or after step 630, the routine continues to step 660 to determine if more gift clusters are to be categorized. If so, the routine returns to step 605, and if not the routine continues to step 695 and ends.

Figure 7 is a flow diagram of an embodiment of the Search Gift Clusters routine 700. The routine receives indications of various search criteria from a user, determines gift clusters that match the search criteria, and display indications of the gift clusters to the user. The routine begins in step 705 where a list of available search categories is displayed to a user. The routine then continues to step 710 where it receives an indication from the user of the search category, and in step 715 receives an indication of a search term value for the search category. In step 720, the routine then determines if more search categories are to be specified, and if so continues to step 725 to receive an indication of a term connector for the previous and next search terms, and then returns to step 710. If it was instead determined that no more categories are to be specified, the routine continues to step 730 to determine accessible gift clusters that match the search criteria, and then continues to step 735 to display a list of those gift clusters to the user. In step 740, the routine next determines if more searches are to occur, and if so returns to step 705, and if not continues to step 795 and ends.

Figure 8 is a flow diagram of an embodiment of the View Gift Cluster routine 800. The routine receives an indication of a gift cluster from a user, and displays information about the gift cluster to the user. The routine begins in step 805 where an indication related to a gift cluster is received. The routine continues to step 810 to determine if a particular gift cluster is indicated. If so, the routine continues to step 815 to retrieve information about the gift cluster (*e.g.*, from the Gift Cluster database), and then continues to step 820 to display the retrieved information to the user. If it was instead determined in step 810 that the indication was not a particular gift cluster, the routine continues to step 825 to determine if a particular user was indicated. If so, the routine continues to step 830 to determine gift clusters created by that user, and in step 835 displays a list of those gift clusters to the user who supplied the indication. If it was instead determined in step 825 that a particular user was not indicated, the routine continues to step 840 to determine if a particular item was indicated. If so, the routine

continues to step 845 to determine various gift clusters that include the item, and then continues to step 850 to display a list of the determined gift clusters to the user. After steps 820, 835, 850, or if it was instead determined in step 840 that a particular item was not indicated, the routine continues to step 855 to determine if more gift clusters are to be displayed. If so, the routine returns to step 805, and if not the routine continues to step 895 and ends.

Figure 9 is a flow diagram of an embodiment of the Order Gift Cluster routine 900. The routine receives an indication of a gift cluster, of a recipient, and of payment information, and then orders the gift cluster for the recipient using the payment information. The routine begins in step 905 where an indication of the gift cluster is received. The routine continues to step 910 where an indication of a procurement option is received, with the procurement option optionally containing recipient information, payment information, and other delivery information. Those skilled in the art will appreciate that recipient, payment, and delivery information can be received in a fashion other than via a specified procurement option. The routine next continues to step 915 to optionally receive an indication of one or more recipients that are different from the recipients specified by the procurement option, and if so selects the newly indicated recipients to be the order recipients. The routine next retrieves information about the gift cluster, such as from the Gift Cluster database, and then continues to step 922 to determine if each of the items in the gift cluster are currently available (*e.g.*, from the Item database). If not, the routine continues to step 924 to indicate to the user that the gift cluster is not currently available for delivery, and can optionally indicate the particular items which are not currently available.

If the gift cluster items are available, the routine continues to step 925 to execute the Determine Delivery Information For The Gift Cluster subroutine to gather delivery information, and then to step 930 to execute the Determine Payment Information For The Gift Cluster subroutine to gather payment information. The routine next continues to step 935 to optionally display a summary of the various current ordering information for the gift cluster, and continues to step 940 to determine if the user wishes to make changes to the information or to cancel the order. If the user wishes to make

changes, the routine continues to step 945 to receive an indication of a change to be made, then continues to step 950 to change the information as indicated, and then returns back to step 935. If the user instead indicates in step 940 to complete the order using the current order information, the routine continues to step 955 to place an order for the items in the gift cluster as a group using the order information, and then continues to step 960 to display an order confirmation to the user. After steps 924 or 960, the routine continues to step 965 to determine if more orders are to be placed. If so, the routine returns to step 905, and if not the routine continues to step 995 and ends.

Figure 10 is a flow diagram of an embodiment of the Determine Delivery Information For The Gift Cluster subroutine 925. The subroutine receives an indication of a gift cluster, and determines delivery information for an order of the gift cluster. In the illustrated embodiment, the subroutine determines delivery information for the gift cluster without requesting manually specified information, while in other embodiments such information may be manually requested and supplied. The subroutine begins in step 1005 where an indication of a gift cluster is received, and then continues to step 1010 where an indication of a procurement option to be used for the ordering is received. In step 1015, the subroutine selects any delivery information associated with the procurement option, and then continues to step 1020 to determine if the gift cluster has associated delivery information of a different type in the procurement option. If so, the subroutine continues to step 1025 to select the associated delivery information associated with the gift cluster. In the illustrated embodiment, delivery information associated with a gift cluster will override delivery information associated with the procurement option, because aspects of the gift cluster may necessitate special delivery (*e.g.*, overnight delivery may be needed for perishable items).

After step 1025, or if it was determined that the gift cluster did not have different associated delivery information, the subroutine continues to step 1030 to determine if additional delivery information is needed (*e.g.*, when neither the procurement option nor the gift cluster has associated delivery information). If so, the subroutine continues to step 1035 where delivery information associated with items in the gift cluster is retrieved. The subroutine then continues to step 1040 to determine

aggregate delivery information that is consistent with the retrieved item delivery information, and in step 1045 selects any determined delivery information of a type that is needed. Thus, in the illustrated embodiment, delivery information associated with either the procurement option or the gift cluster overrides item-specific delivery information. The subroutine then continues to step 1050 to determine if additional delivery information is needed, and if so selects default delivery information for the types additionally needed. After step 1055, or if it was instead determined in steps 1030 or 1050 that additional delivery information is not needed, the subroutine continues to step 1060 to return the selected delivery information. The subroutine then continues to step 1095 and returns.

Figure 11 is a flow diagram of an embodiment of the Determine Payment Information For The Gift Cluster subroutine 930. The subroutine receives an indication of a gift cluster, and determines payment information for an order of the gift cluster. In the illustrated embodiment, payment information for the gift cluster is determined automatically if possible, and manually if not. The subroutine begins in step 1105 where an indication of the gift cluster is received, and in step 1110 then receives an indication of a procurement option to be used for the ordering. The subroutine next continues to step 1115 to determine if the procurement option has sufficient associated payment information. If so, the subroutine continues to step 1120 to select the associated payment information. If not, the subroutine instead continues to step 1125 to receive manually specified payment information, and in step 1130 then selects the received information. After steps 1120 or 1130, the subroutine continues to step 1135 where it returns the selected payment information. The subroutine then continues to step 1195 and returns.

Although the present invention has been described in terms of various embodiments, it is not intended that the invention be limited to these embodiments. Modification within the spirit of the invention will be apparent to those skilled in the art. For example, various different single actions can be used to effect the placement of an order, such as a voice command spoken by the purchaser, a key depressed by the purchaser, a button on a television remote control device depressed by the purchaser, or a selection effected using any pointing device. Although a single action may be preceded

by multiple physical movements of the purchaser (*e.g.*, moving a mouse so that a mouse pointer is over a button, displaying a list of possible procurement options), the single action generally refers to a single event received by a client system that indicates to place the order. The scope of the present invention is defined by the claims that follow.

## CLAIMS

1           1.     A method for assisting a user of an item purchasing service in giving  
2 groups of related items to recipients, the computer-implemented method comprising:  
3           defining each of a plurality of gift clusters having multiple related items by,  
4           for each of a plurality of items,  
5           displaying information identifying the item to the user;  
6           receiving an indication from the user to add the item to the  
7 gift cluster being defined; and  
8           in response, adding the item to the gift cluster being defined;  
9           receiving an indication from the user of at least one category for the  
10 gift cluster being defined; and  
11           associating the indicated at least one category with the gift cluster  
12 being defined;  
13           storing each of the defined gift clusters for later use in ordering;  
14           after the storing, displaying to the user information identifying the stored  
15 defined gift clusters and the categories associated with each of the gift clusters; and  
16           after selection by the user of a displayed indication of one of the identified  
17 gift clusters and an indication of a recipient, sending to a server computer a request to  
18 order as a group for the recipient each of the items included in the indicated gift cluster,  
19 so that the user can send multiple related items to a recipient with a single selection.

1           2.     The method of claim 1 wherein the indicated gift cluster includes an  
2 item representing a product to be supplied and an item representing a service to be  
3 provided.



1           3.     The method of claim 1 wherein the indicated gift cluster includes  
2 items that are different types of products.

1           4.     The method of claim 1 wherein a procurement option is defined to  
2 assist ordering of items for a specified recipient using specified payment information,  
3 wherein the specified recipient is the indicated recipient, and wherein the selection of the  
4 displayed indicated gift cluster and indicated recipient is based on selection of a  
5 displayed indication of the procurement option while the procurement option is  
6 associated with the indicated gift cluster.

1           5.     The method of claim 4 including using the specified payment  
2 information to purchase each of the items included in the indicated gift cluster.

1           6.     The method of claim 1 including:  
2 receiving an indication from another user to display information identifying  
3 defined gift clusters having an associated specified value for a specified category;  
4 determining available stored gift clusters having the associated value for the  
5 category;  
6 displaying to the another user information identifying the determined gift  
7 clusters; and  
8 after selection by the another user of a displayed indication of one of the  
9 determined gift clusters and an indication of a second recipient, sending to a server  
10 computer a request to order as a group for the second recipient each of the items included  
11 in the gift cluster indicated by the another user.

1           7.     The method of claim 1 including receiving an indication from the  
2 user to make at least one of the stored defined gift clusters available for ordering by other  
3 users.

1           8.     The method of claim 1 including sending to the recipient as a group  
2 each of the items included in the indicated gift cluster.

1           9.     A method for ordering multiple items defined by a user as a group  
2 using a client system, the method comprising:

3                 displaying information identifying multiple items previously defined by a  
4 user to be a group, and displaying an indication of an action that is to be performed to  
5 order the user-defined group of multiple items; and

6                 in response to the indicated action being performed, sending to a server  
7 computer a request to order the user-defined group of multiple items.

1           10.    The method of claim 9 including receiving an indication of a  
2 recipient to whom the ordered group of multiple items is to be delivered, and wherein the  
3 sending of the request includes an indication to deliver the multiple items to the indicated  
4 recipient as a group.

1           11.    The method of claim 9 wherein the sending of the request to the  
2 server computer results in an order being placed for the multiple items without any  
3 further interaction by a user of the client system.

1           12.    The method of claim 9 wherein the displaying includes displaying an  
2 indication to add the user-defined group to a collection of items for later ordering.

1           13.    The method of claim 9 wherein the displaying includes displaying to  
2 a user an indication to add the user-defined group to a collection of items for that user  
3 that is accessible to others, the collection for indicating to the others items in which that  
4 user has expressed an interest.

1           14.    The method of claim 9 wherein the displaying includes displaying an  
2 indication of each of multiple procurement options having information related to  
3 ordering, wherein the indicated action that is to be performed to order the user-defined  
4 group is selection of one of the displayed procurement option indications, and wherein  
5 the sending of the request includes an indication to order the user-defined group using the  
6 information of the procurement option for the selected indication.

1           15.    The method of claim 9 wherein the displaying identifies multiple  
2 user-defined groups each having multiple items, and including, before the sending to the  
3 server computer of the request to order a user-defined group of multiple items, receiving  
4 an indication of the user-defined group of multiple items to be ordered from a customer  
5 performing the ordering.

1           16.    The method of claim 15 wherein the displaying that identifies the  
2 multiple user-defined groups of multiple items is in response to selection by the customer  
3 of a displayed indication representing the multiple user-defined groups.

1           17.    The method of claim 15 wherein the performing of the indicated  
2 action includes the indicating of the user-defined group of multiple items to be ordered.

1           18.    The method of claim 15 wherein the multiple user-defined groups of  
2 multiple items were previously defined by the customer.

1           19.    The method of claim 9 wherein the ordering of the user-defined  
2 group of multiple items is performed by a second user distinct from the user.

1           20.    The method of claim 9 wherein the user-defined group includes an  
2 item representing a product to be supplied and an item representing a service to be  
3 provided.

1           21.    The method of claim 9 wherein the user-defined group includes  
2 items that are different types of products.

1           22.    The method of claim 9 wherein the user-defined group includes an  
2 item that is another user-defined group of multiple items.

1           23.    The method of claim 9 wherein the user-defined group has  
2 associated shipping instructions, and wherein the sent request is additionally to deliver  
3 the multiple items as specified by the shipping instructions.

1           24.    The method of claim 9 wherein the user-defined group has  
2 associated wrapping instructions for the multiple items, and wherein the sent request is  
3 additionally to wrap the multiple items as specified by the wrapping instructions.

1           25.    The method of claim 9 wherein the displayed information and the  
2 displayed indication are part of a Web page received from the server system.

1           26.    The method of claim 9 wherein the performing of the indicated  
2 action includes clicking a mouse button when a cursor is positioned over the displayed  
3 indication.

1           27.    The method of claim 9 wherein the displaying of the information  
2 identifying the user-defined group of multiple items is in response to determining that the  
3 user-defined group satisfies search criteria specified by a customer.

1           28.    The method of claim 27 including assisting the customer to specify  
2 the search criteria by:  
3           displaying indications of multiple categories related to user-defined groups  
4 of items; and

5 receiving indications from the customer of a value for at least one of the  
6 multiple categories.

1 29. The method of claim 27 wherein the search criteria relates to  
2 popularity of the user-defined group among other users.

1 30. The method of claim 27 wherein the search criteria relates to  
2 demographic information about an intended recipient.

1 31. The method of claim 27 wherein the search criteria identifies groups  
2 of multiple items such that the identified groups have a specified price.

1 32. The method of claim 27 wherein the search criteria identifies groups  
2 of multiple items defined for a specified recipient.

1 33. The method of claim 27 wherein the search criteria identifies user-  
2 defined groups appropriate for a specified occasion.

1 34. The method of claim 27 wherein the search criteria identifies groups  
2 of multiple items defined for users with specified interests.

1 35. The method of claim 9 including, before the displaying of the  
2 information, defining the group of multiple items based on received indications from the  
3 user.

1 36. The method of claim 35 including assisting the user to define the  
2 group of multiple items by:

3 displaying indications of multiple items; and

4 in response to received indications for at least some of the multiple items,  
5 adding the indicated items to the defined group.

1           37.    The method of claim 35 including receiving category information to  
2 be associated with the defined group of multiple items.

1           38.    The method of claim 35 including receiving an indication from the  
2 user to make the defined group of multiple items available for ordering to other users.

1           39.    A computer-readable medium whose contents cause a computer  
2 system to perform the method of claim 9.

1           40.    The computer-readable medium of claim 39 wherein the computer-  
2 readable medium is a data transmission medium transmitting a generated data signal  
3 containing the contents.

1           41.    The computer-readable medium of claim 39 wherein the computer-  
2 readable medium is a memory of a computer system.

1           42.    A computer-readable generated data signal transmitted via a  
2 transmission medium, the generated data signal having encoded contents that assist a first  
3 user of a computer system to order multiple items defined as a group by a second user,  
4 by:

5                displaying information to the first user identifying a group of multiple items  
6 defined by the second user and displaying to the first user an indication of an action that  
7 is to be performed to order the user-defined group of multiple items; and

8                in response to the indicated action being performed, sending to a server  
9 computer a request to order the user-defined group of multiple items.

1           43.    The computer-readable generated data signal of claim 42 wherein the  
2 first user is distinct from the second user.

1           44.    A client system for ordering multiple items defined by a user as a  
2 group, comprising:

3           a display component capable of displaying information identifying multiple  
4 items defined by a user as a group and of displaying an indication of an action that is to  
5 be performed to order the user-defined group of multiple items; and

6           an item ordering component capable of, after performance of the indicated  
7 action, sending to a server computer a request to order the user-defined group of multiple  
8 items.

1           45.    A client system for ordering multiple items defined by a user as a  
2 group, comprising:

3           means for displaying information identifying multiple items defined by a  
4 user as a group and displaying an indication of an action that is to be performed to order  
5 the user-defined group of multiple items; and

6           means for in response to the indicated action being performed, sending to a  
7 server computer a request to order the user-defined group of multiple items.

1           46.    A method for a server system to process an order for a group of  
2 multiple items defined by a user, the method comprising:

3           sending to a client system information identifying multiple items that were  
4 previously defined by a user to be a group, and sending to the client system an indication  
5 of an action that is to be performed to order the user-defined group of multiple items; and

6           after receiving an indication from the client system that the indicated action  
7 has been performed, placing an order for the multiple items of the user-defined group to  
8 be delivered as a group to a recipient.

1           47.    The method of claim 46 wherein the sent information identifies  
2 multiple user-defined groups each having multiple items, and wherein the receiving of the

3 indication that the indicated action has been performed includes an indication of the user-  
4 defined group of multiple items to be ordered.

1 48. The method of claim 46 wherein the ordering of the user-defined  
2 group of multiple items is performed by a second user distinct from the user.

1 49. The method of claim 46 wherein the user-defined group has  
2 associated shipping instructions, and wherein the ordered multiple items are delivered as  
3 specified by the shipping instructions.

1 50. The method of claim 46 wherein the sending of the information  
2 identifying the user-defined group of multiple items is in response to determining that the  
3 user-defined group satisfies search criteria specified by a customer.

1 51. The method of claim 46 including, before the sending of the  
2 information, defining the group of multiple items based on received indications from the  
3 user.

1 52. The method of claim 51 including removing the user-defined group  
2 of multiple items based on criteria specified by the user during the defining of the group.

1 53. The method of claim 46 including delivering the multiple items to  
2 the recipient as a group.

1 54. The method of claim 46 including charging a second user from  
2 whom the order was received for the ordering of the user-defined group.

1 55. The method of claim 46 including:  
2 under control of the client system,  
3 receiving from the server system the sent information identifying the



4 user-defined group and the sent indication of the action;  
5 displaying information identifying the user-defined group and an  
6 indication of an action that is to be performed to order the user-defined group; and  
7 in response to an indication from a customer using the client system,  
8 sending to the server system the indication that the indicated action has been performed.

1 56. The method of claim 46 including sending information identifying  
2 the user-defined group to each of a plurality of client systems having different users, and  
3 placing multiple orders for the multiple items of the user-defined group in response to  
4 received indications from the users at the client systems.

1 57. The method of claim 56 including tracking a number of times that  
2 the user-defined group of multiple items has been ordered.

1 58. The method of claim 57 including determining a popularity rating for  
2 the user-defined group of multiple items based on the number of times for that group.

1 59. The method of claim 57 including reimbursing the user based on the  
2 number of times that the user-defined group is ordered.

1 60. A computer-readable medium whose contents cause a computer  
2 system to perform the method of claim 46.

1 61. A server system for processing an order for a group of multiple items  
2 defined by a user, comprising:

3 a component capable of sending to a client system information identifying a  
4 group of multiple items that may be ordered, the group of multiple items defined by a  
5 user; and

6 an item ordering component capable of, after receiving an indication from  
7 the client system that the user-defined group of multiple items is to be ordered, placing an

8 order for the multiple items of the user-defined group to be delivered as a group to a  
9 recipient.

1 62. A method for assisting a user in creating user-defined groups of  
2 multiple items for ordering, the method comprising:  
3 defining each of a plurality of groups of multiple items by,  
4 receiving an indication from the user to add each of a plurality of  
5 items to the group being defined; and  
6 in response, associating each of the indicated items with the group;  
7 and  
8 for at least some of the user-defined groups, making those user-defined  
9 group available for ordering to other users based on information received from the user,  
10 so that any of the other users can order the multiple items in one of the available user-defined  
11 groups by selecting that group for ordering.

1 63. The method of claim 62 including receiving an indication from one  
2 of the other users to order one of the available user-defined groups, and ordering in  
3 response as a group the multiple items associated with the indicated one user-defined  
4 group for the one other user.

1 64. The method of claim 62 including receiving an indication from the  
2 user to order one of the user-defined groups that was not made available to other users,  
3 and ordering as a group the multiple items associated with the indicated one user-defined  
4 group for the user.

1 65. The method of claim 62 including receiving wrapping instructions  
2 from the user about each of the user-defined groups, and associating the received  
3 information for a group with that group to assist in later ordering of the group.

1           66. The method of claim 62 including automatically generating  
2 descriptive information about each of the user-defined groups based on the items  
3 associated with the group, and associating the generated information for a group with that  
4 group to assist in later ordering of the group.

1           67. The method of claim 62 including automatically generating  
2 descriptive information about each of the user-defined groups based on demographic  
3 information of recipients for whom the group is ordered, and associating the generated  
4 information for a group with that group to assist in later ordering of the group.

1           68. The method of claim 62 wherein each of the user-defined groups  
2 includes an item representing a product to be supplied and an item representing a service  
3 to be provided.

1           69. The method of claim 62 wherein each of the user-defined groups  
2 includes items that are different types of products.

1           70. The method of claim 62 including receiving descriptive information  
2 from the user about each of the user-defined groups, and associating the received  
3 information for a group with that group to assist in later ordering of the group.

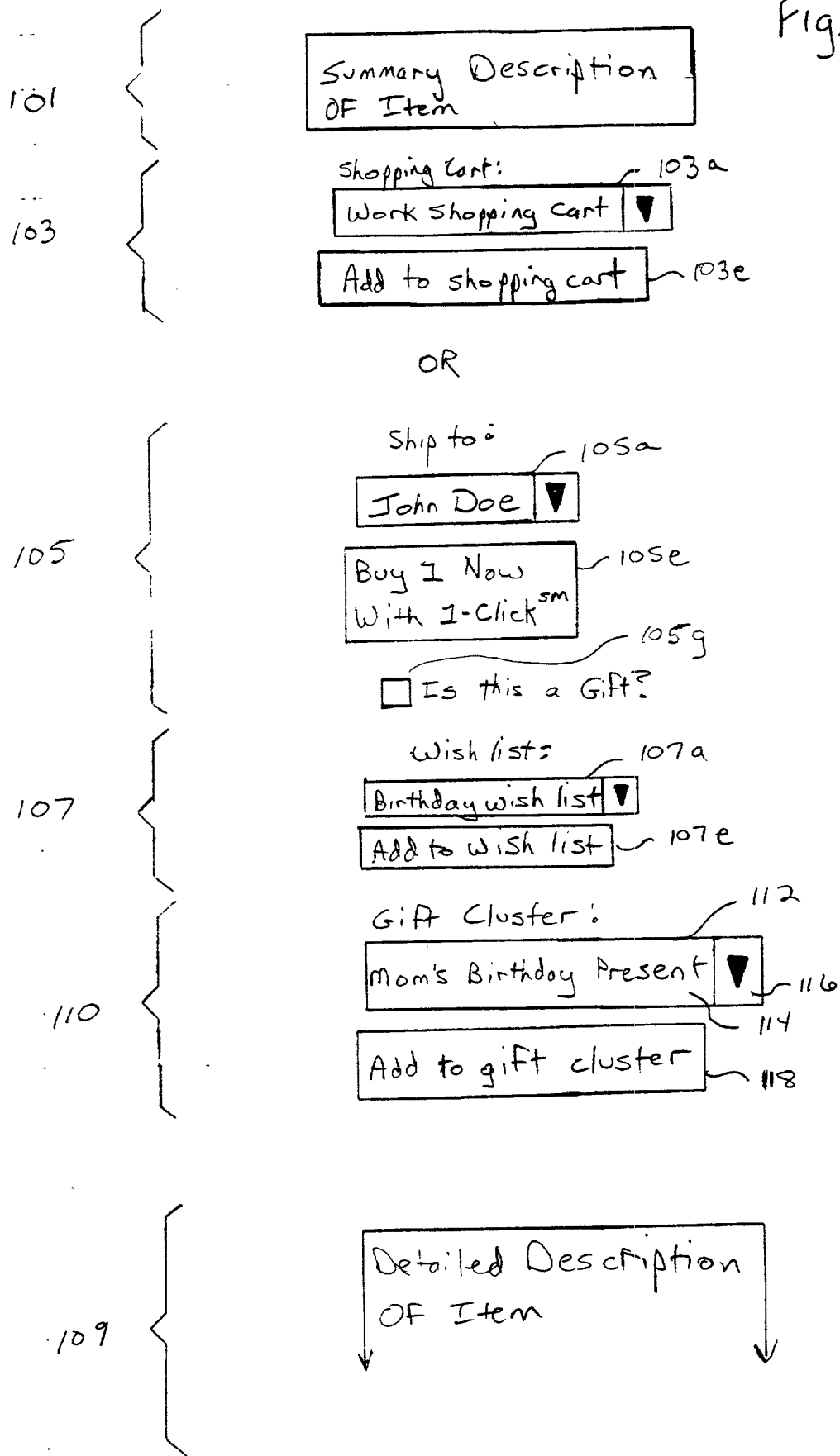
1           71. The method of claim 62 including receiving shipping instructions  
2 from the user about each of the user-defined groups, and associating the received  
3 information for a group with that group to assist in later ordering of the group.  
4  
5

1           72. A computer-readable medium containing a data structure for use in  
2 ordering multiple items defined by a user as a group, a visual representation of the data  
3 structure including an indication of a group of multiple items defined by a user and an



Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Education (years)	Mean (SD)
Male	12.5 (2.1)
Female	12.8 (2.3)
Marital status	
Married	78%
Single	22%
Occupation	
Professional	35%
Managerial	25%
Technical	20%
Service	15%
Unemployed	5%
Health status	
Good	65%
Fair	25%
Poor	10%
Smoking status	
Smoker	30%
Non-smoker	70%
Alcohol consumption	
Regular	15%
Occasional	25%
Never	60%
Family size	Mean (SD)
Male	3.2 (1.5)
Female	3.5 (1.6)
Income (USD/month)	Mean (SD)
Male	1200 (300)
Female	1150 (280)

A method and system for creating of gift clusters of multiple items in a client/server environment by users, and for the ordering of such user-defined gift clusters of multiple items. In particular, a user can specify multiple items to be associated together as a gift cluster, and can also specify a variety of descriptive information about the gift cluster. That user or another user can then order the gift cluster as a gift for themselves or for another recipient, and may also order the gift cluster for the same or different recipients multiple times. The descriptive information can provide various information about how the gift cluster is to be used, and can also assist the user or others in identifying when the gift cluster is appropriate for a recipient. When customers are later searching for appropriate gift clusters, the various categorization or other descriptive information can then assist in identifying appropriate gift clusters. The gift clustering functionality may be provided by and work in conjunction with a particular item ordering service, or instead may work independently from any particular item ordering service.



002201"44266960

Fig. 1B

101

Summary Description  
OF Item

103

Shopping Cart:

Work Shopping Cart ▼

103a

Add to shopping cart

103e

OR

105

Ship to:

John Doe ▼

105a

Buy 1 Now  
With 1-Click<sup>sm</sup>

105e

☐ Is this a Gift?

105g

107

Wish list:

Birthday wish list ▼

107a

Add to wish list

107e

110

Gift Cluster:

114

112

Mom's Birthday Present ▼

116

~~Mom's Birthday Present~~

120

Dog Owners

122

My Visitors Welcome Package

124

Girls Age 10-12

126

add new gift cluster

130

109

Detailed Description  
OF Item

Item Categorization Information 140

	Item Name	Item ID	Product/Service	Product Type	Service Type	Occasion	Gender	Age Range	Interests
140a	Book ABC	0001342	Product	Book	-	*	*	*	*
140b	Book BCD	0009287	Product	Book	-	*	*	*	Science Fiction, Mystery
140c	Book CDE	0001983	Product	Book	-	*	Male	16+	*
140d	Book DEF	9072086	Product	Book	-	Wedding	*	*	*
140e	Cake ABC	7972383	Product	Food	-	Birthday	*	5-10	*
140f	Food Product BCD	2987238	Product	Food	-	*	*	*	*
140g	Flower Arrangement ABC	0279800	Product	Flowers	-	*	*	*	*
140h	Music CD ABC	0013803	Product	Music, CD	-	*	*	*	*
140i	DVD Movie ABC	0012333	Product	Movie, DVD	-	*	*	*	*
140j	VHS Movie ABC	7813292	Product	Movie, VHS	-	*	*	*	*
140k	TV ABC	0974363	Product	Electronics	-	*	*	*	*
140l	Software ABC	3513527	Product	Software, CD	-	*	*	*	*
140m	Toy ABC	4397234	Product	Toy	-	*	*	*	*
140n	Video Game ABC	5982374	Product	Video Game	-	*	*	*	*
140o	Health Product ABC	9874933	Product	Health	-	*	*	*	*
140p	Prescription ABC	7283977	Product	Health	-	*	*	*	*
140q	Beauty Product ABC	6387924	Product	Beauty	-	*	*	*	*
140r	Art Item ABC	3941272	Product	Art	-	*	*	*	*
140s	Collectible Item ABC	9071467	Product	Collectible	-	*	*	*	*
140t	Kitchenware ABC	8913741	Product	Kitchenware	-	*	*	*	*
140u	Furniture ABC	7137783	Product	Furniture	-	*	*	*	*
140v	Home Furnishing ABC	8091203	Product	Furnishing	-	*	*	*	*
140w	Houseware ABC	8789122	Product	Houseware	-	*	*	*	*
140x	Lawn Product ABC	3293107	Product	Lawn	-	*	*	*	*
140y	Tool ABC	2283717	Product	Tool	-	*	*	*	*
140z	Automobile ABC	2002733	Product	Automobile	-	*	*	*	*
140aa	Automobile Rental ABC	2002733	Service	-	Rental	*	*	*	*
140ab	Home Cleaning Package ABC	3229073	Service	-	Cleaning	*	*	*	*
140ac	Computer ABC & Service BCD	4927349	Product, Service	Computer	Repair	*	*	*	*
140ad	Gift Certificate Amount ABC	3789239	Product	Gift Certificate	-	*	*	*	*
140ae	Gift Cluster ABC	9723078	Product	Cluster	-	*	*	*	*

Figure 1C

Add Selected Items To Gift Cluster

Change Gift Cluster

Current Gift Cluster: Mom's Birthday Present

~ 155

~ 153

~ 151



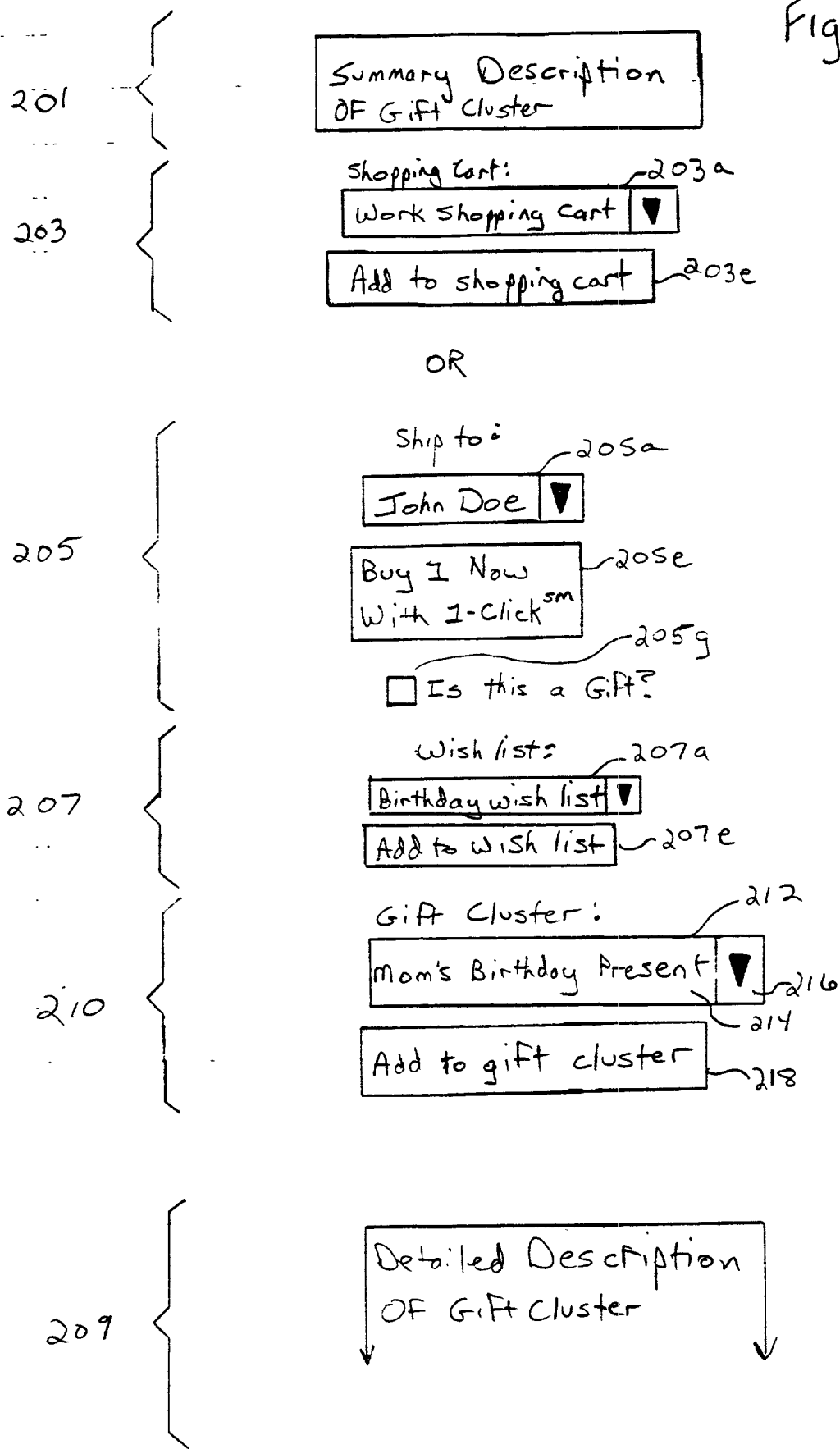
Table 1. Demographic characteristics of the study population	
Age (years)	55.7 ± 10.2
Gender	
Male	50 (50.0%)
Female	50 (50.0%)
Education	
High school	10 (10.0%)
University	90 (90.0%)
Marital status	
Married	80 (80.0%)
Single	20 (20.0%)
Occupation	
Physician	10 (10.0%)
Nurse	10 (10.0%)
Pharmacist	10 (10.0%)
Other	70 (70.0%)
Smoking status	
Smoker	10 (10.0%)
Non-smoker	90 (90.0%)
Alcohol consumption	
Alcohol consumer	10 (10.0%)
Non-alcohol consumer	90 (90.0%)
Family size	
1-2	10 (10.0%)
3-4	10 (10.0%)
5-6	10 (10.0%)
7-8	10 (10.0%)
9-10	10 (10.0%)
11-12	10 (10.0%)
13-14	10 (10.0%)
15-16	10 (10.0%)
17-18	10 (10.0%)
19-20	10 (10.0%)
21-22	10 (10.0%)
23-24	10 (10.0%)
25-26	10 (10.0%)
27-28	10 (10.0%)
29-30	10 (10.0%)
31-32	10 (10.0%)
33-34	10 (10.0%)
35-36	10 (10.0%)
37-38	10 (10.0%)
39-40	10 (10.0%)
41-42	10 (10.0%)
43-44	10 (10.0%)
45-46	10 (10.0%)
47-48	10 (10.0%)
49-50	10 (10.0%)
51-52	10 (10.0%)
53-54	10 (10.0%)
55-56	10 (10.0%)
57-58	10 (10.0%)
59-60	10 (10.0%)
61-62	10 (10.0%)
63-64	10 (10.0%)
65-66	10 (10.0%)
67-68	10 (10.0%)
69-70	10 (10.0%)
71-72	10 (10.0%)
73-74	10 (10.0%)
75-76	10 (10.0%)
77-78	10 (10.0%)
79-80	10 (10.0%)
81-82	10 (10.0%)
83-84	10 (10.0%)
85-86	10 (10.0%)
87-88	10 (10.0%)
89-90	10 (10.0%)
91-92	10 (10.0%)
93-94	10 (10.0%)
95-96	10 (10.0%)
97-98	10 (10.0%)
99-100	10 (10.0%)
101-102	10 (10.0%)
103-104	10 (10.0%)
105-106	10 (10.0%)
107-108	10 (10.0%)
109-110	10 (10.0%)
111-112	10 (10.0%)
113-114	10 (10.0%)
115-116	10 (10.0%)
117-118	10 (10.0%)
119-120	10 (10.0%)
121-122	10 (10.0%)
123-124	10 (10.0%)
125-126	10 (10.0%)
127-128	10 (10.0%)
129-130	10 (10.0%)
131-132	10 (10.0%)
133-134	10 (10.0%)
135-136	10 (10.0%)
137-138	10 (10.0%)
139-140	10 (10.0%)
141-142	10 (10.0%)
143-144	10 (10.0%)
145-146	10 (10.0%)
147-148	10 (10.0%)
149-150	10 (10.0%)
151-152	10 (10.0%)
153-154	10 (10.0%)
155-156	10 (10.0%)
157-158	10 (10.0%)
159-160	10 (10.0%)
161-162	10 (10.0%)
163-164	10 (10.0%)
165-166	10 (10.0%)
167-168	10 (10.0%)
169-170	10 (10.0%)
171-172	10 (10.0%)
173-174	10 (10.0%)
175-176	10 (10.0%)
177-178	10 (10.0%)
179-180	10 (10.0%)
181-182	10 (10.0%)
183-184	10 (10.0%)
185-186	10 (10.0%)
187-188	10 (10.0%)
189-190	10 (10.0%)
191-192	10 (10.0%)
193-194	10 (10.0%)
195-196	10 (10.0%)
197-198	10 (10.0%)
199-200	10 (10.0%)
201-202	10 (10.0%)
203-204	10 (10.0%)
205-206	10 (10.0%)
207-208	10 (10.0%)
209-210	10 (10.0%)
211-212</	

✓ 160

Create New Gift  
Cluster As  
Indicated

\* - Required Field





## Search For Gift Clusters

00/2014-106960

Name:  ~ 302  
 ~ 352

Creator:  ~ 304  
 ~ 354

Category:  ~ 306  
 ~ 356

Occasion:  ~ 308  
 ~ 358

Gender:  ~ 310  
 ~ 360

Age:  ~ 312  
 ~ 362

Interests:  ~ 314  
 ~ 364

Maximum Price:  ~ 316  
 ~ 366

Expiration:  ~ 318  
 ~ 368

~ 320  
 ~ 322

~ 370

Figure 3A



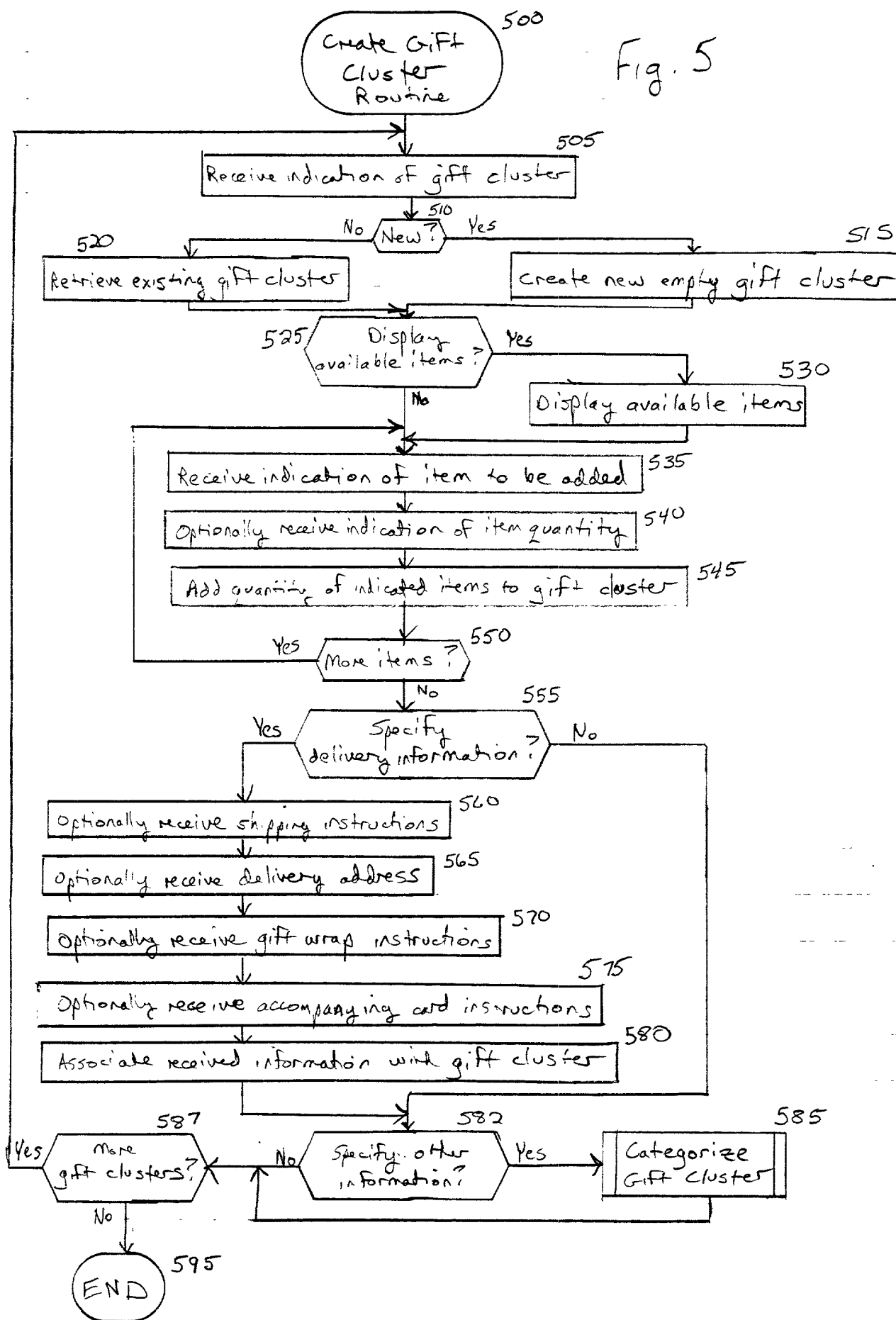
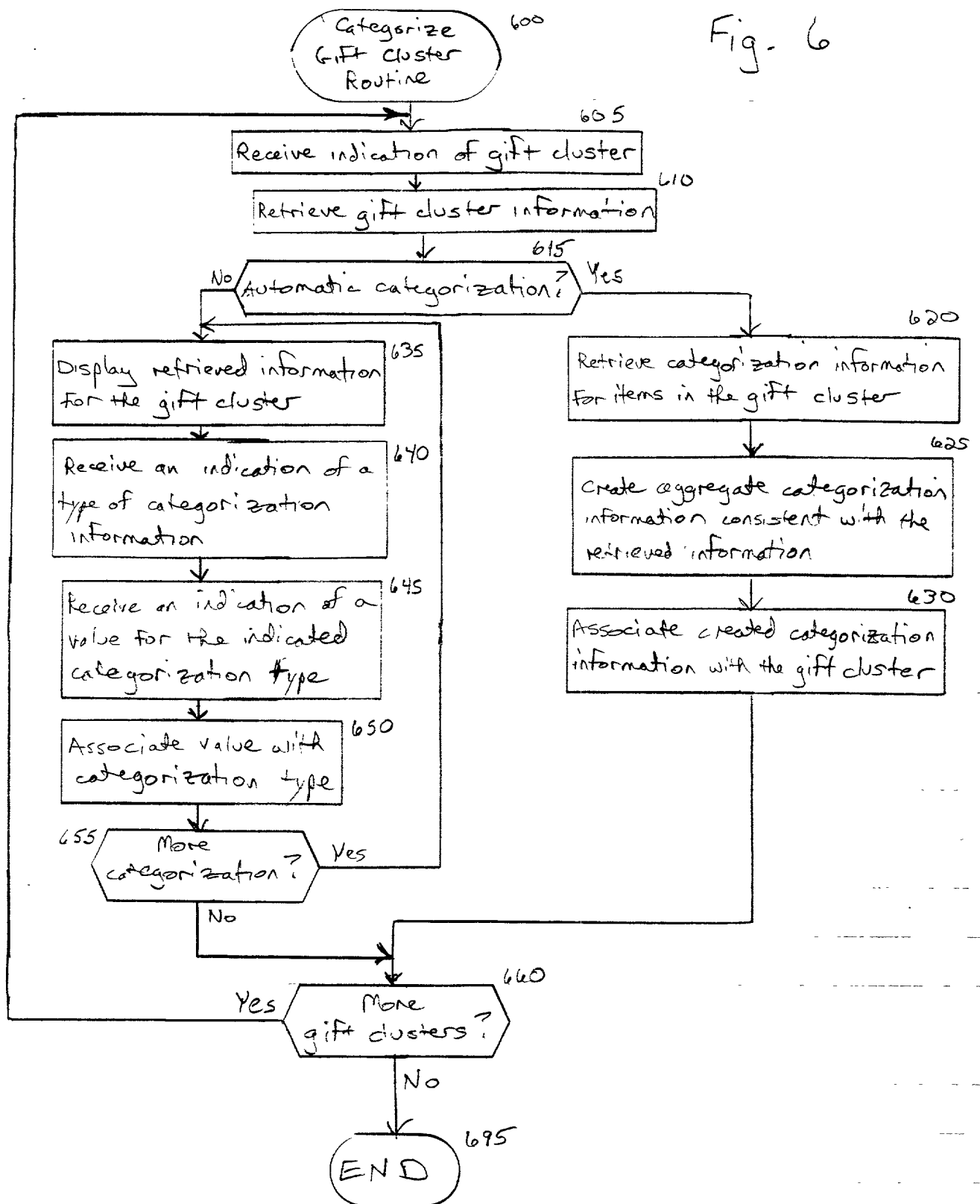


Fig. 6



Search Gift Clusters Routine 700

Fig. 7

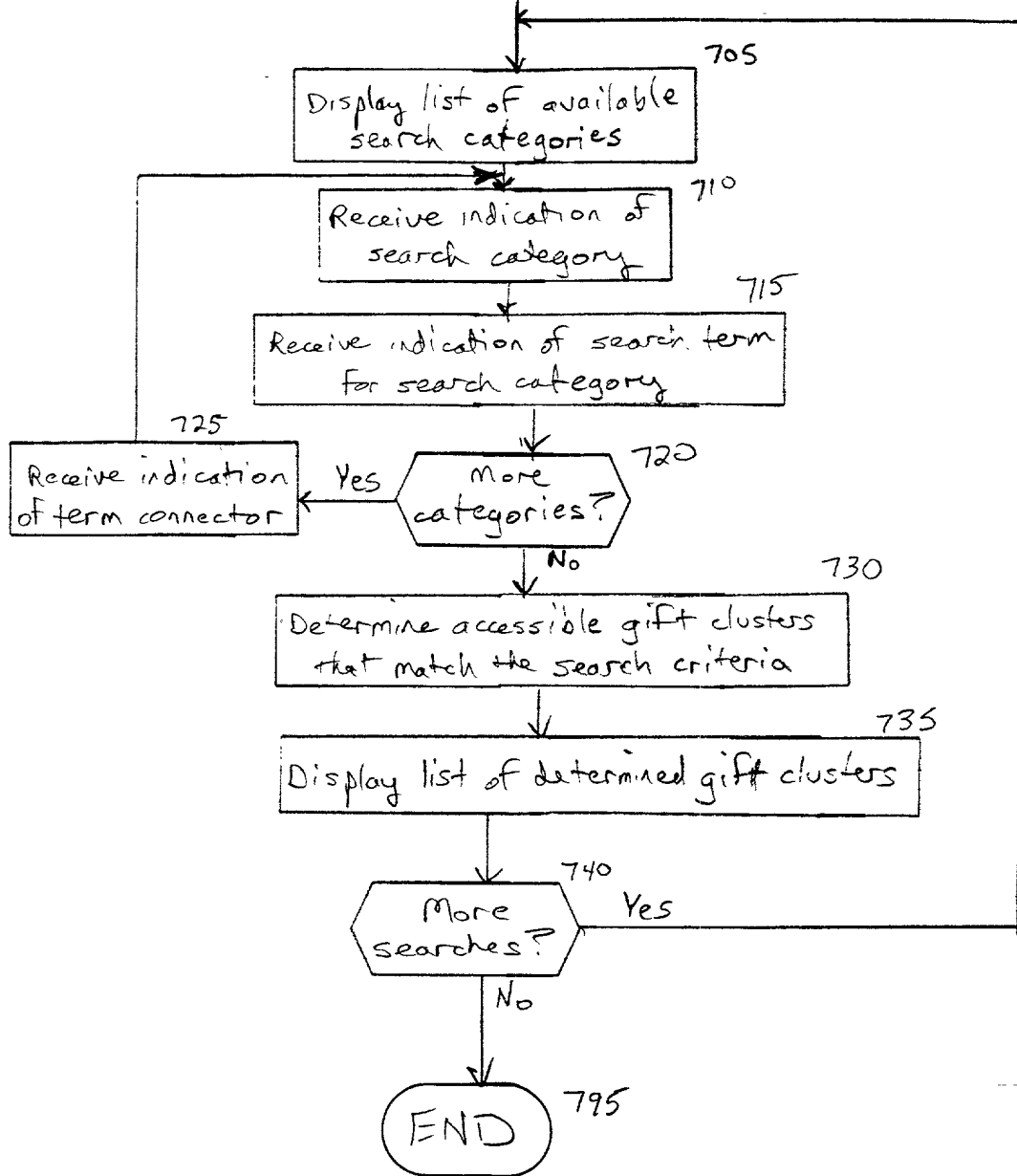
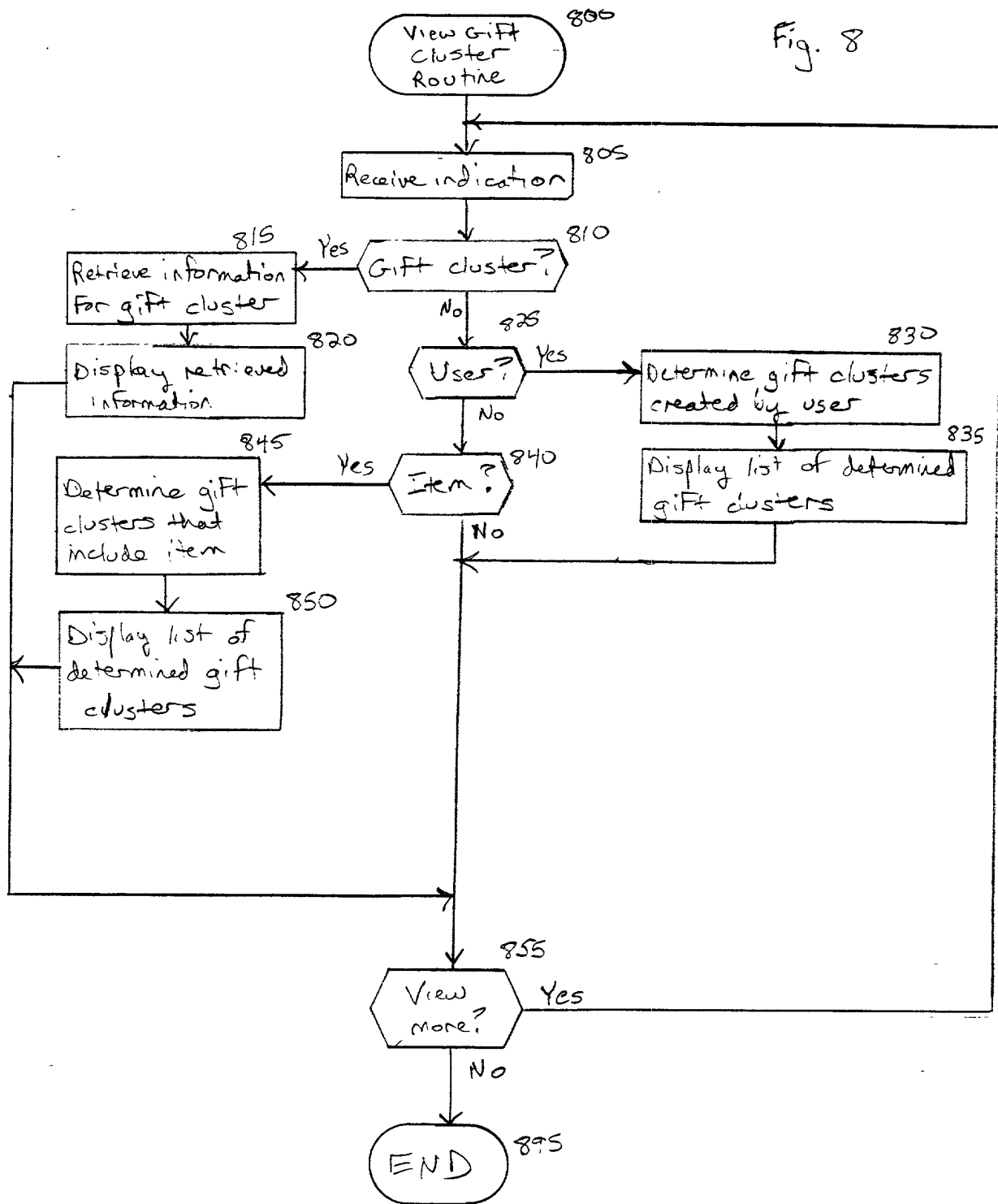




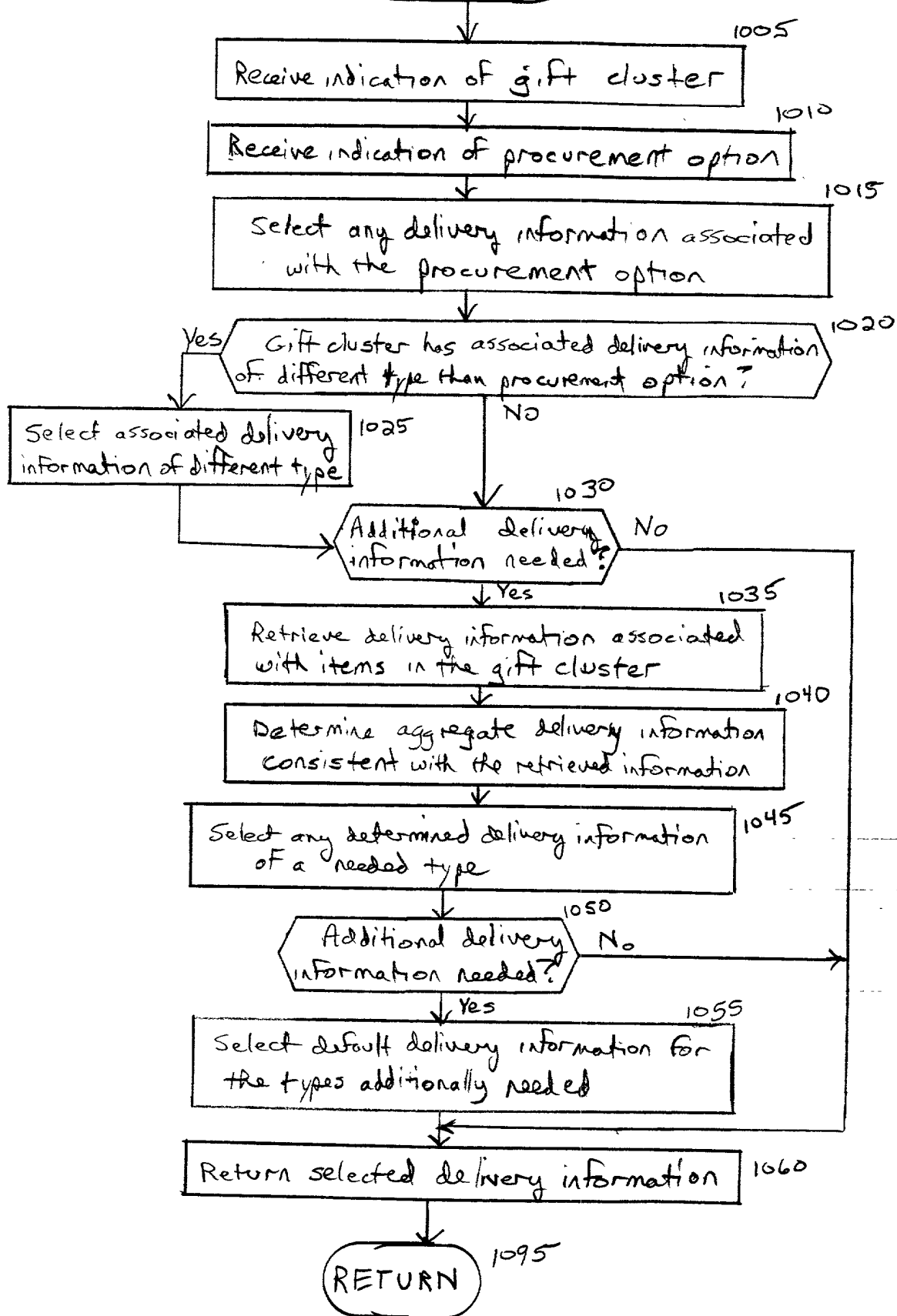
Fig. 8





Determine Delivery  
Information For The  
Gift Cluster  
Subroutine 925

Fig. 10



↓ 1105  
Receive indication of gift cluster

Receive indication of procurement option

Yes Procurement option has associated payment information? 115

Select associated  
payment information

↓ No

Receive manually-specified payment information

1125

↓ 1130

Select received information

Return selected payment information

RETURN 1195